CLAIMS

- A process for purifying phenols in a feedstock containing phenols, neutral oils and/or tar bases comprising the steps of
 - i) subjecting the feedstock to liquid-liquid extraction using a solvent in the form of a mixture of water and a solvent compound to transfer the phenols into a solvent layer, and using a counter-solvent to transfer the neutral oils and/or tar bases into a counter-solvent layer;
 - ii) separating the solvent and counter-solvent layers, which separated solvent layer contains some counter-solvent;
 - subjecting the separated solvent layer of step (ii) to distillation at or above atmospheric pressure to yield a mixture comprising recovered water and counter-solvent as an overheads product and a mixture comprising the solvent compound and phenols as a bottoms product; and
 - iv) recovering phenols from the bottoms product of step iii) to yield a purified phenols product.

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- A process for purifying phenols from a feedstock containing phenols, neutral oils and/or tar bases comprising the steps of
 - i) subjecting the feedstock to liquid-liquid extraction using a solvent in the form of mixture of water and a solvent compound to transfer the

phenols into a solvent layer, and using an organic counter-solvent to transfer the neutral oils and/or tar bases into a counter-solvent layer;

separating the solvent and counter-solvent layers, the solvent layer optionally containing some counter-solvent;

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- subjecting the separated solvent layer of step ii) to distillation to yield a mixture comprising recovered water, some phenols and optionally some counter-solvent as an overheads product, and a mixture comprising the solvent compound and a major portion of the phenols as a bottoms product;
- iv) settling the overheads product of step iii) to form an aqueous phase and an organic phase and separating the phases from each other;
- v) recycling the organic phase of step iv) to the liquid-liquid extraction of step i); and
- vi) recovering the phenols from the bottoms product of step iii) to yield a purified phenols product.
 - 3. A process for purifying phenols from a feedstock containing phenols, neutral oils and/or tar bases comprising the steps of
- 20 i) subjecting the feedstock to liquid-liquid extraction using a solvent compound to transfer the phenols into a solvent layer and using a counter-solvent to transfer the neutral oils and/or tar bases and some solvent compound into a counter-solvent layer;
 - ii) separating the solvent and counter-solvent layers, which separated

- counter-solvent layer contains some solvent compound;
- iii) recovering the counter-solvent from the separated counter-solvent layer to yield recovered counter-solvent as well as a mixture of solvent compound and neutral oils and/or tar bases;
- 5 iv) separating the solvent compound from the neutral oils and/or tar bases from the mixture of solvent compound and neutral oils and/or tar bases obtained in step iii); and
 - v) recovering phenols from the separated solvent layer of step ii) to yield a purified phenols product.